This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

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1. (Original) Compounds of the general formula (I)

$$L \longrightarrow Cu \bigcirc Cu \longrightarrow L$$
 (I),

in which copper is in the oxidation state +1, and

L is R-C≡C-R' having at least one silyl or ester group,

R'HC=CHR

having at least one silyl or ester group,

 $R'_3Si-C \equiv C-R'$, R'_3N , $R'_2N(CH_2)_nNR'_2$, substituted or unsubstituted 2,2'-bipyridine, 1,10-phenanthroline, $P(OR')_3$,

P(alkyl)3,

R'-O-R', R'-O(CH₂)_nO-R', R'-S-R', R'-S(CH₂)_nS-R' or a nitrile from the group consisting of CH₃-C \equiv N, ^tBu-C \equiv N, C₄H₉C \equiv N and Ph-C \equiv N,

where

R is A, aryl, alkylaryl or alkynyl having at least one SiR'3 or

COOR' group, and

R' is R, H, A, aryl, alkylaryl or alkynyl,

where L, R and R' may each, independently of one another, adopt identical or different meanings in different positions of the molecule,

and

A is straight-chain or branched C1-C30-alkyl, C3-C30-cycloalkyl,

straight-chain or branched C2-C30-alkenyl or straight-chain or

branched C3-C30-cycloalkenyl,

aryl is C6-C10-aryl or alkylaryl,

alkylaryl is C7-C18-alkylaryl,

alkynyl is straight-chain or branched C2-C30-alkynyl.

2. (Original) Compounds according to Claim 1, in which

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A is straight-chain or branched C1-C9-alkyl, straight-chain or

branched C3-C9-cycloalkyl, straight-chain or branched C2-C9-

alkenyl or

straight-chain or branched C3-C9-cycloalkenyl,

aryl is phenyl or naphthyl,

alkylaryl is tolyl or mesityl,

alkynyl is straight-chain or branched C2-C9-alkynyl,

and R and R' may each, independently of one another, adopt identical or different meanings in different positions of the molecule.

3. (Original) Compounds according to Claim 1, in which

A is straight-chain or branched C1-C4-alkyl from the group consisting of methyl, ethyl, n- and i-propyl and n-, i- and tert-butyl, C3-C6-cycloalkyl from the group consisting of cyclopropyl, cyclobutyl, cyclopentyl and cyclohexyl, straight-chain or branched C2-C6-alkenyl from the group consisting of vinyl, propenyl, butenyl, pentenyl and hexenyl, or C3-C6-cycloalkenyl from the group consisting of cyclopropenyl, cyclobutenyl, cyclopentadienyl, and methylcyclopentadienyl,

aryl is phenyl or naphthyl,

alkylaryl is tolyl or mesityl,

alkynyl is straight-chain or branched C2-C6-alkynyl from the group consisting of ethynyl, propynyl, butynyl, pentynyl and hexynyl, and R and R' may each, independently of one another, adopt identical or different meanings in different positions of the molecule.

(Original) Compounds according to Claim 1,
 in which L is R-C≡C-R' or R'HC=CHR, each having at least one silyl or ester group, and the radicals R and R' are as defined in Claim 1.

(Original) Compounds according to Claim 1,
 in which L is R'₃Si-C≡C-R', where R' is SiMe₃, CH₃, C₂H₅, C₃H₇,
 C₄H₉, phenyl, COOMe or COOEt.

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- 6. (Original) Compounds according to Claim 1, in which L is an alkyne selected from the group consisting of Me₃SiC≡C-SiMe₃, Me₃Si-C≡C-ⁿBu, McOOC-C≡C-COOMe, EtOOC-C≡C-COOEt and Me₃Si-C≡C-R', in which R' is CH₃, C₂H₅, C₃H₇, phenyl, COOMe or COOEt.
- 7. (Original) Compounds according to Claim 1, in which L is an alkene selected from the group consisting of H₂C=CHSiMe₃, H₂C=CHCOOCH₃, H₂C=CHCOOC₂H₅ and H₂C=CHSiR'₃, in which R', independently of one another, is CH₃, C₂H₅, C₃H₇, C₄H₉, HC=CH₂ or phenyl.
- 8. (Original) Compounds according to Claim 1, in which L is a compound selected from the group consisting of CH₃-C≡N, ¹Bu C≡N, C₄H₉C≡N, Ph-C≡N; N(CH₃)₃, N(C₂H₅)₃, H₂N (CH₂)₂NH₂(CH₃)₂N(CH₂)₂-N(CH₃)₂, (C₂H₅)₂N(CH₂)₂N(CH₂)₂N(C₂H₅)₂, H₂N-(CH₂)₄-NH₂, (CH₃)₂N-(CH₂)₄-N(CH₃)₂, (C₂H₅)₂N(CH₂)₄N(C₂H₅)₂, 2,9-dimethyl-1,10-phenanthroline; P(OCH₃)₃, P(OC₂H₅)₃, P(OC₃H₇)₃, P(C₄H₉)₃, P(OC₆H₁₁)₃, P(OPh)₃; P(CH₃)₃, P(C₂H₅)₅, P(C₃H₇)₃, P(C₄H₉)₃, P(C₆H₁₁)₃; C₂H₅-O-C₂H₅, CH₃-O-C₄H₉, CH₃O-(CH₂)₂-OCH₃, C₂H₅O-(CH₂)₂-OC₂H₅, CH₃-S-CH₃, C₂H₅-S-C₂H₅, C₃H₇-S-C₃H₇, Ph-S-Ph, CH₃S-(CH₂)₂-SCH₃, CH₃S-(CH₂)₃-SCH₃, C₂H₅S-(CH₂)₂-SC₂H₅ and PhS-(CH₂)₂-SPh.
- 9. (Original) Compounds of the general formula (I)di{[bis(trimethylsilyl)acetylene]copper(I)} oxalate,di{[(trimethylsilyl)(n-butyl)acetylene]copper(I)} oxalate,

di[(vinyl-t-butyldimethylsilane)copper(I)] oxalate, di[(vinyldiethylmethylsilane)copper(I)] oxalate.

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- 10. (Currently Amended) Process for the preparation of the compounds of the general formula (I) according to Claims 1-9 Claim 1, characterised in that Cu₂O is reacted with oxalic acid and a Lewis base L in an inert solvent, and the resultant product is isolated.
 - 11. (Original) Process according to Claim 10, characterised in that an inert aprotic organic solvent is used which is an open-chain or cyclic aliphatic or aromatic hydrocarbon, a halogenated aliphatic or halogenated aromatic hydrocarbon or a linear or cyclic ether or a mixture of these hydrocarbons.
 - 12. (Currently Amended) Process according to one of Claims 10 and 11 Claim 10, characterised in that a solvent selected from the group consisting of pentane, hexane, heptane, cyclohexane, toluene, methylene chloride, trichloromethane, chlorobenzene, diethyl ether and tetrahydrofuran is used.
 - 13. (Original) Process according to Claim 10, characterised in that it is carried out under a protective-gas atmosphere.
 - 14. (Original) Process according to Claim 13, characterised in that the protective gas employed is nitrogen or argon.
 - 15. (Original) Process according to Claim 10, characterised in that the Lewis base L is employed in excess relative to the stoichiometric ratio of the starting materials Cu₂O and oxalic acid, but at least in twice the stoichiometric ratio.
 - 16. (Currently Amended) Process according to one of Claims 10 and 15 Claim 10, characterised in that the starting materials Cu₂O, oxalic acid and Lewis base L are employed in a stoichiometric ratio of from 1:1:2 to 1:1:4.

17. (Currently Amended) Process according to one or more of Claims 10, 15 and 16 Claim 10, characterised in that two different Lewis bases L are employed in identical molar amounts.

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- 18. (Currently Amended) Process according to one or more of Claims 10 to 17

 Claim 10, characterised in that the reaction is carried out within a reaction time of from 1 to 24 hours at a temperature in the range from -30 to +100°C.
- (Currently Amended) Process according to one or more of Claims 10 to 18
 Claim 10, characterised in that it is carried out at room temperature.
- 20. (Currently Amended) Process according to one or more of Claims 10 to 19 Claim 10, characterised in that, when the reaction is complete, insoluble constituents are separated off, and the reaction product is isolated from the solution and, if necessary, purified, or in that the reaction product is separated from the reaction mixture by extraction, isolated and, if necessary, purified.
- 21. (Currently Amended) Process according to one or more of Claims 10 to 19

 <u>Claim 10</u>, characterised in that insoluble constituents are separated off by filtration.
- 22. (Currently Amended) Use of the compounds of the general formula (I) according to Claims 1 to 9 Claim 1 for the production of highly pure, thin metallic copper layers.
- 23. (Currently Amended) Process for the production of highly pure, thin metallic copper layers, characterised in that compounds of the general formula (I) according to Claims 1 to 9 Claim 1 are heated, causing elimination of the Lewis base L and deposition of metallic copper deposited through

decarboxylation.

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- 24. (Original) Process according to Claim 23, characterised in that the elimination of the Lewis base L is carried out at a temperature in the range from 50 to about 200°C, and the decarboxylation is completed at a temperature in the range from 150 to 350°C with formation of metallic copper.
- 25. (Currently Amended) Process according to Claims 23 and 24 Claim 23, characterised in that the Lewis base L eliminated is recycled, re-employed in a process according to Claims 10 to 21 for preparing compounds of general formula (I) by reacting Cu₂O with oxalic acid and the Lewis base in an inert solvent and isolating the product, and then using the compounds of general formula (I) used for the production of highly pure, thin metallic copper layers.
- 26. (Currently Amended) Highly pure, thin metallic copper layer produced using a compound of the general formula (I) according to Claims 1 to 9 Claim 1.